

Date: July 11, 2018

 Office of Engineering and Technology  
 Laboratory Division  
 Equipment Authorization Branch  
 Federal Communications Commission Laboratory  
 7435 Oakland Mills Road  
 Columbia, MD 21046

**Subject:** Application for Certification of Transmitter with FCC ID: **AZ492FT7118**

Dear Sir/Madam,

Motorola Solutions Inc herein submits application for Certification of the subject transmitter.

This transmitter is intended for use in a Mobile Radio environment with capabilities for clear and coded communications with a variable transmit power operating within the following frequency ranges:

Product Name	Model Numbers	Frequency Range	Rated Power	FCC Rule Parts
APX8500	M37TXS9PW1AN	LMR VHF: 136 -174 MHz	1.0 – 100.0 W; Max=120.0 W	90, 22, 74, 80
		LMR UHF: 380 – 485 MHz	1.0 – 100.0 W; Max=120.0 W	90, 22, 74, 80
		LMR UHF: 485 – 512 MHz	1.0 – 40.0 W; Max=48.0 W	90, 22, 74, 80
		LMR UHF: 512 – 520 MHz	1.0 – 25.0 W; Max=30.0 W	90, 22, 74, 80
		LMR 700MHZ : 762 – 806 MHz	1.0 – 30.0 W; Max=36.0 W	90
		LMR 800MHz : 806 – 825 MHz	1.0 – 35.0 W; Max=42.0W	90
		LMR 800MHz : 825 – 870 MHz	1.0 – 35.0 W; Max=42.0W	90
		802.11b,g,n: 2412 – 2462 MHz	802.11b : 44 mW (Max) 802.11g: 18 mW (Max) 802.11n: 19 mW (Max)	15C
		802.11a,n,ac: 5170 – 5835 MHz	802.11a : 16 mW (Max) 802.11n (20MHz): 16 mW (Max) 802.11n (40MHz): 16 mW (Max) 802.11ac : 13 mW (Max)	15E

We are requesting certification under Part(s) of the Commission's Rules listed above to allow operation of this equipment. The transmitter is intended for work related occupational use only under Part 90 of the FCC rules.

The subject transmitter complies with Section 90.203 and 80.203 (b) of the Rules in that the operator cannot directly program transmit frequencies using the unit's normally accessible external controls. The transmitter also complies to 80.203(n) as it meets all performance requirements listed in IEC62238. This product in the 470-512MHz will be utilizing the T-band waiver allocation. The waiver is included in this filing and noted as Exhibit 13d.

A complete Certification application is enclosed. If you require any additional information, please contact me at (954) 723-4707.

Sincerely,



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 Regulatory Compliance Manager  
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